

12 KAR 1:170. Germination standards for flower seed.

RELATES TO: KRS 250.081(1)(c)9

STATUTORY AUTHORITY: KRS 250.081

NECESSITY, FUNCTION, AND CONFORMITY: To prescribe standards for flower seed and to list those kinds for which standard testing procedures are prescribed. The information required to be shown on the label is dependent upon whether or not standard testing procedures have been prescribed and whether or not a lot being labeled falls above or below the standard.

Section 1. Flower Seed Standards. (1) The kinds of flower seed listed below are those for which standard testing procedures have been prescribed. Common names are listed first, followed by Latin names. The percentage listed opposite each kind is the germination standard for that kind. For the kinds marked with an asterisk, the percentage is the total of percentage germination and percentage hard seed. For other kinds, it is the percentage germination.

Kind	Germination %
Archillea (The Pearl) - Achillea ptarmica	50
African daisy - Dimorphotheca aurantiaca	55
African violet - Saintpaulia spp.	30
Ageratum - Ageratum mexicanum	60
Agrostemma (rose campion) - Agrostemma coronaria	65
Alyssum - Alyssum compactum, A. maritimum, A. procumbens, and A. saxatile	60
Amaranthus - Amaranthus spp.	65
Anagalis (Primpernel) - Anagalis arvensis, A. coerulea, and A. grandiflora	60
Anemone - Anemone coronaria, and A. pulsatilla	55
Angel's trumpet - Datura arborea	60
Arabis - Arabis alpina	60
Arctotis (African lilac daisy) - Arctotis grandis	45
Armeria - Armeria formosa	55
Asparagus, Fern - Asparagus plumosus	50
Asparagus, Sprenger - Asparagus sprengeri	55
Aster, China - Callistephus chinensis; except Pompon, Powderpuff, and Princess types	55
Aster, China - Callistephus	50

chinensis; Pompon, Powderpuff, and Princess types	
Aubretia - Aubretia deltoides	45
Baby Smilax - Aparagus asparagooides	25
Balsam - Impatiens balsamina	70
Begonia - (Begonia fibrous rooted)	60
Begonia - (Begonia tuberous rooted)	50
Bells of Ireland - Molucella laevis	60
Brachycome (Swan River daisy) - Brachycome iberidifolia	60
Browallia - Browallia elata and B. speciosa	65
Bupthalum (Sunwheel) - Bupthalum salicifolium	60
Calceolaria - Calceolaria spp.	60
Calendula - Calendula officinalis	65
California poppy - Eschscholtzia californica	60
Calliopsis - Coreopsis bicolor, C. drummondii, and C. elegans	65
Campulana:	
Canterbury bells - Campanula medium	60
Cup and saucer bellflower - Campanula medium calycanthema	60
Carpathian bellflower - Campanula carpatica	50
Peach bellflower - Campanula persicifolia	50
Candytuft, Annual - Iberis amara, and I. umbellata	65
Candytuft, Perennial - Iberis gibraltarica, and I. sempervirens	55
*Castor bean - Ricinus communis	60
Cathedral bells - Cobaea scandens	65
Celosia - Celosia argentea	65
Centaurea: Basket flower - Centaurea americana, Cornflower - C. cyanus, Dusty miller - C. candidissima, Royal Centaurea - C. imperialis, Sweet sultan - C. moschata, and Velvet Centau-	60

rea - <i>C. gymnocarpa</i>	
Cerastium (Snow-in-summer) - Cerastium biebersteini and <i>C. tomentosum</i>	65
Chinese forget-me-not - <i>Cynoglossum amabile</i>	55
Chrysanthemum, Annual - <i>Chrysanthmum carinatum</i> , <i>C. coronarium</i> , and <i>C. segetum</i>	40
Cineraria - <i>Senecio cruentus</i>	60
Clarkia - <i>Clarkia elegans</i>	65
Cleome - <i>Cleome gigantea</i>	65
Coleus - <i>Coleus blumei</i>	65
Columbine - <i>Aquilegia spp.</i>	50
Coral bells - <i>Heuchera sanguinea</i>	55
Coreopsis, Perennial - <i>Coreopsis lanceolata</i>	40
Corn, Ornamental - <i>Zea mays</i>	75
Cosmos: Sensation, Mammoth, and Crested types - <i>Cosmos bipinnatus</i> ; and Klondyke type - <i>C. sulphureau</i>	65
Crossandra - <i>Crossandra infundibuliformis</i>	50
Dahlia - <i>Dahlia spp.</i>	55
Daylily - <i>Hemerocallis spp.</i>	45
Delphinium, Perennial: Belladonna and Bellamosum types; Cardinal larkspur - <i>Delphinium cardinalis</i> ; Chinensis types; and Pacific giant, Gold medal, and other hybrids of <i>D. elatum</i>	55
Dianthus:	
Carnation - <i>Dianthus caryophyllus</i>	60
China pinks - <i>Dianthus chinensis</i> , <i>D. heddewigi</i> , and <i>D. heddensis</i>	70
Grass pinks - <i>Dianthus plumarius</i>	60
Maiden pinks - <i>Dianthus deltoides</i>	60
Sweet William - <i>Dianthus barbatus</i>	70
Sweet Wivelsfield - <i>Dianthus allwoodi</i>	60

Didiscus (Blue lace flower) - Didiscus coerulea	65
Doronicum (Leopard's bane) - Doronicum caucasicum	60
Dracaena - Dracaena indivisa	55
Dragon tree - Dracaena draco	40
English daisy - Bellis perennis	55
Flax:	
Golden flax - Linum flavum, Flowering flax - L. grandiflorum, and Perennial flax - L. perenne	60
Flowering maple - Abutilon spp.	35
Foxglove - Digitalis spp.	60
Gaillardia, Annual - Gaillardia pulchella and G. picta	45
Gaillardia, Perennial - G. grandiflora	45
Gerbera (transvaal daisy) - Gerbera Jamesoni	60
Geum - Geum spp.	55
Gilia - Gilia spp.	65
Glosiosa daisy (rudbeckia) - Echinacea purpurea and Rudbeckia hirta	60
Gloxinia - Sinningia speciosa	40
Godetia - Godetia amoena and G. grandiflora	65
Gourds:	
Yellow flowered - Cucurbita pepo, White flowered - Lagenaria siceraria, and Dishcloth - Luffa cylindrica	70
Gypsohilia:	
Annual baby's breath - Gypsophila elegans; and Perennial baby's breath - G. paniculata, G. pacifica, and G. repens	70
Helenium - Helenium autumnale	40
Helichrysum - Helichrysum monstrosum	60
Heliospis - Heliospis scabra	55
Heliotrope - Heliotropium spp.	35
Helipterum (Acroclinium) - Helipterum roseum	60
Hesperis (Sweet rocket) - Hesperis matronalis	65
*Hollyhock - Althea rosea	65

Hunnemania (Mexican tulip poppy) - <i>Hunnemania fumar-iaefolia</i>	60
*Hyacinth bean - <i>Dolichos lablab</i>	70
Impatiens - <i>Impatiens holstii</i> and <i>I. sultani</i>	55
*Ipomea:	
Cypress vine - <i>Ipomea quamoclit</i> ; Moonflower - <i>I. Noctiflora</i> ; and Morning glories, Cardinal climber, Hearts and Honey vine - <i>Ipomea</i> spp.	75
Jurusulem cross (Maltese cross) - <i>Lychnis chalcedonica</i>	70
Job's tears - <i>Coix lacrymajobi</i>	70
Kochia - <i>Kochia childsi</i>	55
Larkspur, Annual - <i>Delphinium ajacis</i>	60
Lantana - Lantana camara, <i>L. hybrida</i>	35
Lilium (Regal lily) - <i>Lilium regale</i>	50
Linaria - <i>Linaria</i> spp.	65
Lobelia, Annual - <i>Lobellia erinus</i>	65
Lunaria, Annual-Lunaria annua	65
*Lupine - <i>Lupinus</i> spp.	65
Marigold - <i>Tagetes</i> spp.	65
Marvel of Peru - <i>Mirabilis jalapa</i>	60
Matricaria (Feverfew) - <i>Matricaria</i> spp.	60
Mignonette - <i>Reseda odorata</i>	55
Myosotis - <i>Myosotis alpestris</i> , <i>M. oblongata</i> , and <i>M. palustris</i>	50
Nasturtium - <i>Tropaeolum</i> spp.	60
Nemesia - <i>Nemesia</i> spp.	65
Nemophila - <i>Nemophila insignis</i>	70
Nemophila, Spotted - <i>Nemophila maculata</i>	60
Nicotiana - <i>Nicotiana affinis</i> , <i>N. sanderae</i> , and <i>N. sylvestris</i>	65
Nierembergia - <i>Nierembergia</i> spp.	55
Nigella - <i>Nigella damascena</i>	55
Pansy - <i>Viola tricolor</i>	60
Penstemon - <i>Penstemon barbatus</i> , <i>P. grandflorus</i> , <i>P. laevigatus</i> , and <i>P. pubescens</i>	60
Petunia - <i>Petunia</i> spp.	45
Phacelia - <i>Phacelia campanularia</i> , <i>P. minor</i> , and <i>P. tanacetifolia</i>	65

Phlox, Annual - Phlox drummondii (all types and varieties)	55
Physalis - Physalis spp.	60
Platycodon (Balloon flower) - Platycodon grandiflorum	60
Plumbago, Cape - Plumbago capensis	50
Ponytail - Beaucarnea recurvata	40
Poppy:	
Shirley poppy - Papaver rhoeas, Iceland poppy - Papaver nudicaule, Oriental poppy - P. orientale, and Tulip poppy - P. glaucum	60
Portulace - Portulaca grandiflora	55
Primula (primrose) - Primula spp.	50
Pyrethrum (painted daisy) - Pyrethrum coccineum	60
Salpiglossis - Salpiglossis gloxiniaeeflora and S. sinuata	60
Salvia:	
Scarlet sage - Salvia splendens, and Mealycup sage (Blue bedder) - Salvia farinacea	50
Saponaria - Saponaria ocymoides and S. vaccaria	60
Scabiosa, Annual - Scabiosa atropurpurea	50
Scabiosa, Perennial - Scabiosa caucasica	40
Schizanthus - Schizanthus spp.	60
*Sensitive plant (mimosa) - Mimosa pudica	65
Shasta daisy - Chrysanthemum maximum and C. leucanthemum	65
Silk oak - Grevillea robusta	25
Snapdragon - Antirrhinum spp.	55
Solanum - Solanum spp.	60
Statice - Statice sinuata and S. suworonii (flower heads)	50
Stocks:	
Common - Matthiola incana and Evening scented - Matthiola bicornis	65
Sunflower - Helianthus spp.	70
Sunrose - Helianthemum spp.	30

*Sweet pea, Annual and Perennial other than dwarf bush - <i>Lathyrus odoratus</i> and <i>L. latifolius</i>	75
*Sweet pea, Dwarf bush - <i>Lathyrus odoratus</i>	65
Tahoka daisy - <i>Machaeantha tanacetifolia</i>	60
Thunbergia - <i>Thunbergia alata</i>	60
Torch flower - <i>Tithonia speciosa</i>	70
Torenia (Wishbone flower) - <i>Torenia fournieri</i>	70
Tritoma - <i>Kniphofia</i> spp.	65
Verbena, Annual - <i>Verbena hybrida</i>	35
Vinca - <i>Vinca rosea</i>	60
Viola - <i>Viola cornuta</i>	55
Virginian stocks - <i>Malcolmia maritima</i>	65
Wallflower - <i>Cheiranthus allioni</i>	65
Yucca (Adam's needle) - <i>Yucca filamentosa</i>	50
Zinna (except Linearis and Creeping) <i>Zinnia angustifolia</i> , <i>Z. elegans</i> , <i>Z. grandiflora</i> , <i>Z. gracillima</i> , <i>Z. haageana</i> , <i>Z. multiflora</i> , and <i>Z. pumila</i>	65
Zinnia, Linearis and Creeping - <i>Zinnia linearis</i> and <i>Sanvitaila procumbens</i>	50
All other kinds	50

(2) A mixture of kinds of flower seed will be considered to be below the standard if the germination of any kind or combination of kinds constituting twenty-five (25) percent or more of the mixture by number is below standard for the kind or kinds involved. (20 Ky.R. 3332; eff. 8-24-94.)